EXTENSIBLE MARKUP LANGUAGE (XML) SERVER PAGES HAVING
CUSTOM DOCUMENT OBJECT MODEL (DOM) TAGS

5   **ABSTRACT OF THE DISCLOSURE**

A method for serving a web page uses eXtensible Markup Language (XML)

server pages. The first time a page is accessed, a given flat file is parsed into an XML

Document Object Model (DOM), and required tag libraries are loaded. The DOM

tree is then traversed, preferably in a depth-first, inside-out manner to locate custom

10   tags. Upon locating a custom tag, if the tag is registered as a Java object, the object is

loaded. A process method is then called on the object, passing the custom tag's tree

node. The Java object then examines the custom tag and replaces it with an object,

e.g., script code. Alternatively, if the tag is registered as an XSL stylesheet, the

stylesheet is loaded and passed, together with the DOM, to an XSL processor. The

15   processor applies the template to the custom tag and replaces it with given script code.

Once all custom tags are reduced to HTML and script code, the DOM is compiled

into a Java servlet to service the client request.